

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference UTFB : 719WO	FOR FURTHER ACTION	
see Form PCT/ISA/220 as well as, where applicable, item 5 below.		
International application No. PCT/US2004/009962	International filing date (day/month/year) 01/04/2004	(Earliest) Priority Date (day/month/year) 04/04/2003
Applicant BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 3 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. **Certain claims were found unsearchable** (See Box II).

3. **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

the text is approved as submitted by the applicant.

the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

the text is approved as submitted by the applicant.

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regards to the **drawings**,

a. the figure of the drawings to be published with the abstract is Figure No. _____

as suggested by the applicant.

as selected by this Authority, because the applicant failed to suggest a figure.

as selected by this Authority, because this figure better characterizes the invention.

b. none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US2004/009962

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B01D53/14 B01D53/62 B01D53/86

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B01D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 436 174 B1 (BASF AG) 20 August 2002 (2002-08-20) cited in the application paragraph '0022! - paragraph '0033!; claims 1-15; figures 2-5 -----	1-42
X	US 4 217 237 A (EXXON RESEARCH & ENFGINEERING CO.) 12 August 1980 (1980-08-12) cited in the application claims 1-12; examples 1,2 -----	1-42
X	US 4 094 957 A (EXXON RESEARCH & ENGINEERING CO.) 13 June 1978 (1978-06-13) cited in the application claims 1,4; examples 1-12 -----	1-42



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

16 August 2004

Date of mailing of the international search report

30/08/2004

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US2004/009962

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6436174	B1	20-08-2002	DE 19828977 A1 AT 245469 T AU 756811 B2 AU 4776499 A BR 9911708 A CA 2336043 A1 CN 1136030 B DE 59906371 D1 EG 22272 A WO 0000271 A1 EP 1091796 A1 ID 29380 A JP 2002519171 T RU 2227060 C2	30-12-1999 15-08-2003 23-01-2003 17-01-2000 20-03-2001 06-01-2000 28-01-2004 28-08-2003 31-12-2002 06-01-2000 18-04-2001 30-08-2001 02-07-2002 20-04-2004
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